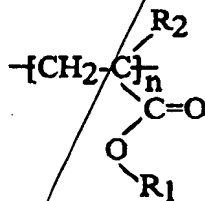


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dimethacrylate, and/or an urethane dimethacrylate resin; a filler, initiator, a coupling agent and, optionally, additional additives.

²⁰21. (New) A microwave curable composition suitable for a denture base according to claim ¹⁹20, wherein said composition comprises (a).

²¹22. (New) A microwave curable composition suitable for a denture base according to claim ²⁰21, wherein said composition contains at least one acrylic polymer containing repeating monomer units represented by the formula



I

wherein

R₁ represents a hydrogen atom, an alkyl group, a substituted alkyl group, a benzyl group, a hydroxy alkyl group, a cyclic hydrocarbon, an ether group,

R₂ represents a hydrogen atom, a halogen atom, an alkyl group, or a substituted alkyl group, and

n is an integer of two or more.

²²23. (New) A microwave curable composition suitable for a denture base according to claim ²¹22, wherein R₁ represents a hydrogen atom, an alkyl group, a cyclic hydrocarbon, a benzyl group, a hydroxy alkyl group, or an ether group.

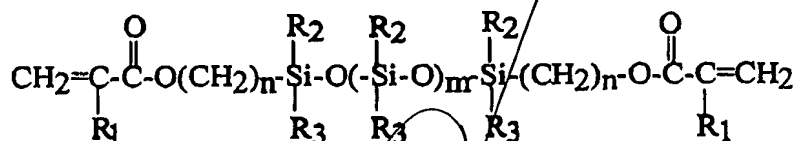
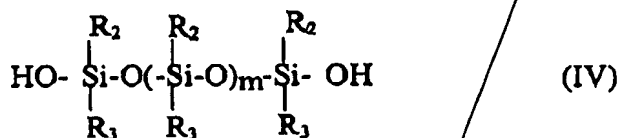
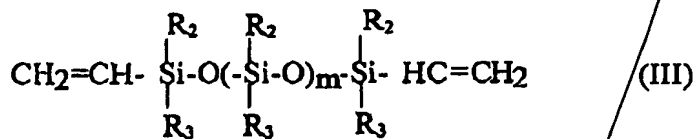
²³24. (New) A microwave curable composition suitable for a denture base according to claim ²²23, wherein R₂ represents a hydrogen atom, a halogen atom, or an alkyl group.

²⁴25. (New) A microwave curable composition suitable for a denture base according to claim ²⁴24, wherein said filler comprises an organic filler or an inorganic filler.

²⁵26. (New) A microwave curable composition suitable for a denture base according to claim ¹⁹20, wherein said composition comprises (b).

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21. (New) A microwave curable composition suitable for a denture base according to claim 20, wherein said organopolysiloxane is represented by any of formulas (III), (IV) or (V)



wherein said formulas

m represents a value of 1 to about 6,000,

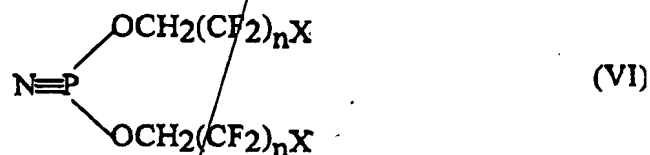
n represents an integer having a value of 1 to 6,

R₁ represents a hydrogen atom or an alkyl group,

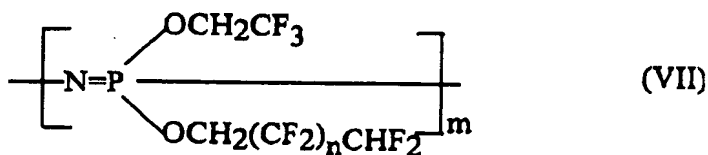
R₂ represents an alkyl group of 1-6 carbon atoms, and

R₃ represents an alkyl group having 1-6 carbon atoms.

28. (New) A microwave curable composition suitable for a denture base according to claim 20, wherein said composition comprises (b) and said at least one phosphonitrile fluoropolymer that is represented by formula (VI):



in which X represents a hydrogen atom or fluorine atom, n is a value of 1 to 11; or that has repeating monomer units represented by formula (VII):



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in which n represents 3, 5, 7, 9 or 11 and m is from 10,000 to 50,000.

²⁸₁₉ 29. (New) A microwave curable composition suitable for a denture base according to claim ²⁸₁₉ 20, wherein said composition comprises (c).

²⁹₂₈ 30. (New) A microwave curable composition suitable for a denture base according to claim ²⁹₂₈ 29, wherein said initiator comprises at least one microwave sensitive compound.

³⁰₂₉ 31. (New) A microwave curable composition suitable for a denture base according to claim ³⁰₂₉ 30, wherein said initiator comprises at least one member selected from the group consisting of benzoyl peroxide, dilauroyl peroxide, (tert-butyl) peroctoate, tert-butyl perbenzoate, 2,4-dichlorobenzoyl peroxide and 4,4-dichlorobenzoyl peroxide.

³¹₂₉ 32. (New) A microwave curable composition suitable for a denture base according to claim ³¹₂₉ 30, wherein said composition contains 0.05% to 1.0% by weight of said initiator.

³²₂₈ 33. (New) A microwave curable composition suitable for a denture base according to claim ³²₂₈ 29, wherein said coupler comprises gamma-methoxypropylene silane or a thiomethacrylate.

³³₂₈ 34. (New) A microwave curable composition suitable for a denture base according to claim ³³₂₈ 31, wherein (a) further comprises an amine accelerator.

³⁴₁₉ 35. (New) A microwave curable composition suitable for a denture base according to claim ³⁴₁₉ 20, wherein said filler comprises particles having a particle size in the range of 0.04 to approximately 10 micrometers.

³⁵₁₉ 36. (New) A method for forming a hardened object comprising

- (i) forming a hardenable composite from a microwave curable composition according to claim ³⁵₁₉ 20; and
- (ii) obtaining said hardened object by using a hand-held microwave applicator to apply microwave energy to harden said composite.

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³⁶₃₇. (New) A method according to claim ³⁵₃₆, wherein said composite is a dental prosthetic or orthopedic element.

³⁷₃₈. (New) A method according to claim ³⁶₃₇, wherein said composite is a dental prosthetic and in (ii) the hardening is intra-oral using said hand-held microwave applicator.

³⁸₃₉. (New) A method according to claim ³⁶₃₇, wherein said dental prosthetic is a composite filling, a crown, a bridge, an inlay, an overlay, a facing, a veneer or orthodontic appliance.

See Appendix